

Release notes for ENDF/B Development n-051\_Sb\_121  
evaluation

**ENDF**  
**B-VII**.dev

April 26, 2017

- checkr Warnings:

1. A previous error halted parsing of the current section  
*MAT=5125, MF= 1, MT=451 (1): Parsing stopped*

```
ERROR(S) FOUND IN MAT=5125, MF= 1, MT=451
SECTION CANNOT BE CHECKED FROM SEQUENCE NUMBER      106 TO      149
```

- checkr Errors:

1. A variable is outside the allowed ENDF range  
*MAT=5125, MF= 1, MT=451 (0): Variable range*

```
ERROR(S) FOUND IN MAT=5125, MF= 1, MT=451
MOD =      1 OUT OF RANGE      0 -      0      RECORD NUMBER      106
```

2. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5125, MF= 2, MT=151 (0): Directory (b)*

```
ERROR(S) FOUND IN MAT=5125, MF= 2, MT=151
SECTION 2/151 NOT IN DIRECTORY      RECORD NUMBER      151
```

3. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5125, MF= 3, MT= 1 (0): Directory (b)*

```
ERROR(S) FOUND IN MAT=5125, MF= 3, MT= 1
SECTION 3/ 1 NOT IN DIRECTORY      RECORD NUMBER      581
```

4. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5125, MF= 3, MT= 2 (0): Directory (b)*

```
ERROR(S) FOUND IN MAT=5125, MF= 3, MT= 2
SECTION 3/ 2 NOT IN DIRECTORY      RECORD NUMBER      610
```

5. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5125, MF= 3, MT= 3 (0): Directory (b)*

```
ERROR(S) FOUND IN MAT=5125, MF= 3, MT= 3
SECTION 3/ 3 NOT IN DIRECTORY      RECORD NUMBER      636
```

6. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5125, MF= 3, MT= 4 (0): Directory (b)*

```
ERROR(S) FOUND IN MAT=5125, MF= 3, MT= 4
SECTION 3/ 4 NOT IN DIRECTORY      RECORD NUMBER      665
```

7. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5125, MF= 3, MT= 16 (0): Directory (b)*

ERROR(S) FOUND IN MAT=5125, MF= 3, MT= 16  
SECTION 3/ 16 NOT IN DIRECTORY RECORD NUMBER 693

8. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5125, MF= 3, MT= 17 (0): Directory (b)*

ERROR(S) FOUND IN MAT=5125, MF= 3, MT= 17  
SECTION 3/ 17 NOT IN DIRECTORY RECORD NUMBER 706

9. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5125, MF= 3, MT= 22 (0): Directory (b)*

ERROR(S) FOUND IN MAT=5125, MF= 3, MT= 22  
SECTION 3/ 22 NOT IN DIRECTORY RECORD NUMBER 713

10. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5125, MF= 3, MT= 28 (0): Directory (b)*

ERROR(S) FOUND IN MAT=5125, MF= 3, MT= 28  
SECTION 3/ 28 NOT IN DIRECTORY RECORD NUMBER 721

11. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5125, MF= 3, MT= 51 (0): Directory (b)*

ERROR(S) FOUND IN MAT=5125, MF= 3, MT= 51  
SECTION 3/ 51 NOT IN DIRECTORY RECORD NUMBER 732

12. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5125, MF= 3, MT= 52 (0): Directory (b)*

ERROR(S) FOUND IN MAT=5125, MF= 3, MT= 52  
SECTION 3/ 52 NOT IN DIRECTORY RECORD NUMBER 760

13. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5125, MF= 3, MT= 53 (0): Directory (b)*

ERROR(S) FOUND IN MAT=5125, MF= 3, MT= 53  
SECTION 3/ 53 NOT IN DIRECTORY RECORD NUMBER 784

14. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5125, MF= 3, MT= 54 (0): Directory (b)*

ERROR(S) FOUND IN MAT=5125, MF= 3, MT= 54  
SECTION 3/ 54 NOT IN DIRECTORY RECORD NUMBER 807

15. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5125, MF= 3, MT= 55 (0): Directory (b)*

- |   |               |     |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5125, MF= 3, MT= 55 | RECORD NUMBER | 829 |
| SECTION 3/ 55 NOT IN DIRECTORY            |               |     |
16. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5125, MF= 3, MT= 56 (0): Directory (b)*
- |   |               |     |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5125, MF= 3, MT= 56 | RECORD NUMBER | 850 |
| SECTION 3/ 56 NOT IN DIRECTORY            |               |     |
17. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5125, MF= 3, MT= 57 (0): Directory (b)*
- |   |               |     |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5125, MF= 3, MT= 57 | RECORD NUMBER | 871 |
| SECTION 3/ 57 NOT IN DIRECTORY            |               |     |
18. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5125, MF= 3, MT= 58 (0): Directory (b)*
- |   |               |     |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5125, MF= 3, MT= 58 | RECORD NUMBER | 892 |
| SECTION 3/ 58 NOT IN DIRECTORY            |               |     |
19. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5125, MF= 3, MT= 91 (0): Directory (b)*
- |   |               |     |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5125, MF= 3, MT= 91 | RECORD NUMBER | 912 |
| SECTION 3/ 91 NOT IN DIRECTORY            |               |     |
20. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5125, MF= 3, MT=102 (0): Directory (b)*
- |   |               |     |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5125, MF= 3, MT=102 | RECORD NUMBER | 931 |
| SECTION 3/102 NOT IN DIRECTORY            |               |     |
21. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5125, MF= 3, MT=103 (0): Directory (b)*
- |   |               |     |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5125, MF= 3, MT=103 | RECORD NUMBER | 957 |
| SECTION 3/103 NOT IN DIRECTORY            |               |     |
22. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5125, MF= 3, MT=104 (0): Directory (b)*
- |   |               |     |
|---|---------------|-----|
| ERROR(S) FOUND IN MAT=5125, MF= 3, MT=104 | RECORD NUMBER | 976 |
| SECTION 3/104 NOT IN DIRECTORY            |               |     |
23. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5125, MF= 3, MT=105 (0): Directory (b)*

- |  |   |                   |
|--|---|-------------------|
|  | ERROR(S) FOUND IN MAT=5125, MF= 3, MT=105 |                   |
|  | SECTION 3/105 NOT IN DIRECTORY            | RECORD NUMBER 991 |
24. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5125, MF= 3, MT=107 (0): Directory (b)*
- |  |   |                    |
|--|---|--------------------|
|  | ERROR(S) FOUND IN MAT=5125, MF= 3, MT=107 |                    |
|  | SECTION 3/107 NOT IN DIRECTORY            | RECORD NUMBER 1003 |
25. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5125, MF= 4, MT= 2 (0): Directory (b)*
- |  |  |                    |
|--|--|--------------------|
|  | ERROR(S) FOUND IN MAT=5125, MF= 4, MT= 2 |                    |
|  | SECTION 4/ 2 NOT IN DIRECTORY            | RECORD NUMBER 1018 |
26. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5125, MF= 4, MT= 16 (0): Directory (b)*
- |  |   |                    |
|--|---|--------------------|
|  | ERROR(S) FOUND IN MAT=5125, MF= 4, MT= 16 |                    |
|  | SECTION 4/ 16 NOT IN DIRECTORY            | RECORD NUMBER 1330 |
27. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5125, MF= 4, MT= 17 (0): Directory (b)*
- |  |   |                    |
|--|---|--------------------|
|  | ERROR(S) FOUND IN MAT=5125, MF= 4, MT= 17 |                    |
|  | SECTION 4/ 17 NOT IN DIRECTORY            | RECORD NUMBER 1385 |
28. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5125, MF= 4, MT= 22 (0): Directory (b)*
- |  |   |                    |
|--|---|--------------------|
|  | ERROR(S) FOUND IN MAT=5125, MF= 4, MT= 22 |                    |
|  | SECTION 4/ 22 NOT IN DIRECTORY            | RECORD NUMBER 1408 |
29. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5125, MF= 4, MT= 28 (0): Directory (b)*
- |  |   |                    |
|--|---|--------------------|
|  | ERROR(S) FOUND IN MAT=5125, MF= 4, MT= 28 |                    |
|  | SECTION 4/ 28 NOT IN DIRECTORY            | RECORD NUMBER 1435 |
30. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5125, MF= 4, MT= 51 (0): Directory (b)*
- |  |   |                    |
|--|---|--------------------|
|  | ERROR(S) FOUND IN MAT=5125, MF= 4, MT= 51 |                    |
|  | SECTION 4/ 51 NOT IN DIRECTORY            | RECORD NUMBER 1478 |
31. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5125, MF= 4, MT= 52 (0): Directory (b)*

- |  |   |                    |
|--|---|--------------------|
|  | ERROR(S) FOUND IN MAT=5125, MF= 4, MT= 52 |                    |
|  | SECTION 4/ 52 NOT IN DIRECTORY            | RECORD NUMBER 1794 |
32. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5125, MF= 4, MT= 53 (0): Directory (b)*
- |  |   |                    |
|--|---|--------------------|
|  | ERROR(S) FOUND IN MAT=5125, MF= 4, MT= 53 |                    |
|  | SECTION 4/ 53 NOT IN DIRECTORY            | RECORD NUMBER 2083 |
33. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5125, MF= 4, MT= 54 (0): Directory (b)*
- |  |   |                    |
|--|---|--------------------|
|  | ERROR(S) FOUND IN MAT=5125, MF= 4, MT= 54 |                    |
|  | SECTION 4/ 54 NOT IN DIRECTORY            | RECORD NUMBER 2364 |
34. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5125, MF= 4, MT= 55 (0): Directory (b)*
- |  |   |                    |
|--|---|--------------------|
|  | ERROR(S) FOUND IN MAT=5125, MF= 4, MT= 55 |                    |
|  | SECTION 4/ 55 NOT IN DIRECTORY            | RECORD NUMBER 2626 |
35. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5125, MF= 4, MT= 56 (0): Directory (b)*
- |  |   |                    |
|--|---|--------------------|
|  | ERROR(S) FOUND IN MAT=5125, MF= 4, MT= 56 |                    |
|  | SECTION 4/ 56 NOT IN DIRECTORY            | RECORD NUMBER 2883 |
36. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5125, MF= 4, MT= 57 (0): Directory (b)*
- |  |   |                    |
|--|---|--------------------|
|  | ERROR(S) FOUND IN MAT=5125, MF= 4, MT= 57 |                    |
|  | SECTION 4/ 57 NOT IN DIRECTORY            | RECORD NUMBER 3135 |
37. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5125, MF= 4, MT= 58 (0): Directory (b)*
- |  |   |                    |
|--|---|--------------------|
|  | ERROR(S) FOUND IN MAT=5125, MF= 4, MT= 58 |                    |
|  | SECTION 4/ 58 NOT IN DIRECTORY            | RECORD NUMBER 3363 |
38. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5125, MF= 4, MT= 91 (0): Directory (b)*
- |  |   |                    |
|--|---|--------------------|
|  | ERROR(S) FOUND IN MAT=5125, MF= 4, MT= 91 |                    |
|  | SECTION 4/ 91 NOT IN DIRECTORY            | RECORD NUMBER 3599 |
39. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5125, MF= 5, MT= 16 (0): Directory (b)*

ERROR(S) FOUND IN MAT=5125, MF= 5, MT= 16  
SECTION 5/ 16 NOT IN DIRECTORY RECORD NUMBER 3693

40. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5125, MF= 5, MT= 17 (0): Directory (b)*

ERROR(S) FOUND IN MAT=5125, MF= 5, MT= 17  
SECTION 5/ 17 NOT IN DIRECTORY RECORD NUMBER 3943

41. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5125, MF= 5, MT= 22 (0): Directory (b)*

ERROR(S) FOUND IN MAT=5125, MF= 5, MT= 22  
SECTION 5/ 22 NOT IN DIRECTORY RECORD NUMBER 4026

42. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5125, MF= 5, MT= 28 (0): Directory (b)*

ERROR(S) FOUND IN MAT=5125, MF= 5, MT= 28  
SECTION 5/ 28 NOT IN DIRECTORY RECORD NUMBER 4129

43. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5125, MF= 5, MT= 91 (0): Directory (b)*

ERROR(S) FOUND IN MAT=5125, MF= 5, MT= 91  
SECTION 5/ 91 NOT IN DIRECTORY RECORD NUMBER 4312

• **psyche** Warnings:

1. Strength function in URR not in agreement with PSYCHE's expectations  
*FILE 2 / SECTION 151 / ISOTOPE MASS = 121. L = 1 / STRENGTH FUNCTION IS 2.34188E-05 / STRENGTH FUNCTION 2.34188E-05 / LIES OUTSIDE LIMITS 1.00000E-04 TO 8.00000E-04 (0): URR str. fn.*

```
FILE 2
SECTION 151
ISOTOPE MASS = 121. L = 1
STRENGTH FUNCTION IS 2.34188E-05
STRENGTH FUNCTION 2.34188E-05
... [1 more lines]
```

2. Level density in URR not in agreement with PSYCHE's expectations  
*FILE 2 / SECTION 151 / ENERGY = 5.40000E+03. STRENGTH FUNCTION IS 2.99997E-05 / ENERGY = 1.00000E+05. STRENGTH FUNCTION IS 2.86063E-05 / DENSITY 2.86930E+01 SHOULD BE 2.84079E+01 (0): URR dens. (a)*

```
FILE 2
SECTION 151
ENERGY = 5.40000E+03. STRENGTH FUNCTION IS 2.99997E-05
ENERGY = 1.00000E+05. STRENGTH FUNCTION IS 2.86063E-05
DENSITY 2.86930E+01 SHOULD BE 2.84079E+01
```

3. Level density in URR not in agreement with PSYCHE's expectations  
*FILE 2 / SECTION 151 / ENERGY = 1.00000E+05. STRENGTH FUNCTION IS 2.53587E-04 / DENSITY 2.25390E+01 SHOULD BE 2.22060E+01 (0): URR dens. (a)*

FILE 2  
SECTION 151  
ENERGY = 1.00000E+05. STRENGTH FUNCTION IS 2.53587E-04  
DENSITY 2.25390E+01 SHOULD BE 2.22060E+01

4. Level density in URR not in agreement with PSYCHE's expectations  
*FILE 2 / SECTION 151 / ENERGY = 5.40000E+03. STRENGTH FUNCTION IS 7.59992E-05 / ENERGY = 1.00000E+05. STRENGTH FUNCTION IS 7.44529E-05 / DENSITY 6.46180E+01 SHOULD BE 6.79500E+01 (0): URR dens. (a)*

FILE 2  
SECTION 151  
ENERGY = 5.40000E+03. STRENGTH FUNCTION IS 7.59992E-05  
ENERGY = 1.00000E+05. STRENGTH FUNCTION IS 7.44529E-05  
DENSITY 6.46180E+01 SHOULD BE 6.79500E+01

5. Level density in URR not in agreement with PSYCHE's expectations  
*FILE 2 / SECTION 151 / ENERGY = 5.40000E+03. STRENGTH FUNCTION IS 7.59992E-05 / ENERGY = 1.00000E+05. STRENGTH FUNCTION IS 7.34209E-05 / DENSITY 3.87710E+01 SHOULD BE 4.07700E+01 (0): URR dens. (a)*

FILE 2  
SECTION 151  
ENERGY = 5.40000E+03. STRENGTH FUNCTION IS 7.59992E-05  
ENERGY = 1.00000E+05. STRENGTH FUNCTION IS 7.34209E-05  
DENSITY 3.87710E+01 SHOULD BE 4.07700E+01

6. Level density in URR not in agreement with PSYCHE's expectations  
*FILE 2 / SECTION 151 / ENERGY = 5.40000E+03. STRENGTH FUNCTION IS 7.60127E-05 / ENERGY = 1.00000E+05. STRENGTH FUNCTION IS 7.60012E-05 / DENSITY 2.76930E+01 SHOULD BE 2.91214E+01 (0): URR dens. (a)*

FILE 2  
SECTION 151  
ENERGY = 5.40000E+03. STRENGTH FUNCTION IS 7.60127E-05  
ENERGY = 1.00000E+05. STRENGTH FUNCTION IS 7.60012E-05  
DENSITY 2.76930E+01 SHOULD BE 2.91214E+01

7. Level density in URR not in agreement with PSYCHE's expectations  
*FILE 2 / SECTION 151 / ENERGY = 5.40000E+03. STRENGTH FUNCTION IS 7.60019E-05 / ENERGY = 1.00000E+05. STRENGTH FUNCTION IS 7.60017E-05 / DENSITY 2.15390E+01 SHOULD BE 2.26500E+01 (0): URR dens. (a)*

FILE 2  
SECTION 151  
ENERGY = 5.40000E+03. STRENGTH FUNCTION IS 7.60019E-05  
ENERGY = 1.00000E+05. STRENGTH FUNCTION IS 7.60017E-05  
DENSITY 2.15390E+01 SHOULD BE 2.26500E+01

8. Level density in URR not in agreement with PSYCHE's expectations  
*FILE 2 / SECTION 151 / ENERGY = 5.40000E+03. STRENGTH FUNCTION IS 7.60007E-05 / ENERGY = 1.00000E+05. STRENGTH FUNCTION IS 7.60030E-05 /*



*DENSITY 1.76230E+01 SHOULD BE 1.85318E+01 (0): URR dens. (a)*

```
FILE 2
SECTION 151
ENERGY = 5.40000E+03. STRENGTH FUNCTION IS 7.60007E-05
ENERGY = 1.00000E+05. STRENGTH FUNCTION IS 7.60030E-05
DENSITY 1.76230E+01 SHOULD BE 1.85318E+01
```

- recent Warnings:

1. Statistical weight of certain L values were incorrect  
*0: RRR goof (a)*

```
Calculate Cross Sections from Resonance Parameters (RECENT 2015-1)
=====
Retrieval Criteria----- MAT
File 2 Minimum Cross Section- 1.0000E-10 (Standard Option)
Reactions with No Background- Output (Resonance Contribution)
... [733 more lines]
```

- fudge-4.0 Warnings:

1. Missing a channel with a particular angular momenta combination  
*resonances / resolved (Error # 1): missingResonanceChannel*

```
WARNING: Missing a channel with angular momenta combination L = 0, J = 1.0 and S = 1.0 for "capture"
WARNING: Missing a channel with angular momenta combination L = 1, J = 1.0 and S = 1.0 for "capture"
WARNING: Missing a channel with angular momenta combination L = 1, J = 2.0 and S = 1.0 for "capture"
WARNING: Missing a channel with angular momenta combination L = 1, J = 2.0 and S = 2.0 for "capture"
... plus 1 more instances of this message
```

2. Cross section does not match sum of linked reaction cross sections  
*crossSectionSum label 0: total (Error # 0): CS Sum.*

```
WARNING: Cross section does not match sum of linked reaction cross sections! Max diff: 0.23%
```

- fudge-4.0 Errors:

1. The spin statistical weights are off, indicating missing channels  
*resonances / resolved / MultiLevel\_BreitWigner (Error # 0): badSpinStatisticalWeights*

```
WARNING: The spin statcal weights for L=1 sums to 2.0, but should sum to 3.0. You have too few channels for re
```

2. Energy range of data set does not match cross section range  
*reaction label 3: n + Sb121\_e3 / Product: n / Distribution: / angularTwoBody - XYs2d:*  
*(Error # 0): Domain mismatch (a)*

```
WARNING: Domain doesn't match the cross section domain: (577880.0 -> 20000000.0) vs (577900.0 -> 20000000.0)
```

3. Calculated and tabulated Q values disagree.  
*reaction label 10: n[multiplicity:'2'] + Sb120 (Error # 0): Q mismatch*

```
WARNING: Calculated and tabulated Q-values disagree: -4726301.111694336 eV vs -9239201. eV!
```

4. Energy range of data set does not match cross section range  
*reaction label 10: n[multiplicity:'2'] + Sb120 / Product: n / Distribution: / uncorrelated - angular - XYs2d: (Error # 0): Domain mismatch (a)*

WARNING: Domain doesn't match the cross section domain: (9316301.0 -> 20000000.0) vs (9316001.0 -> 20000000.0)

5. Energy range of data set does not match cross section range  
*reaction label 10: n[multiplicity:'2'] + Sb120 / Product: n / uncorrelated - energy - XYs2d: (Error # 0): Domain mismatch (a)*

WARNING: Domain doesn't match the cross section domain: (9316301.0 -> 20000000.0) vs (9316001.0 -> 20000000.0)

6. Calculated and tabulated Q values disagree.  
*reaction label 11: n[multiplicity:'3'] + Sb119 (Error # 0): Q mismatch*

WARNING: Calculated and tabulated Q-values disagree: -11744640.90354919 eV vs -1.6258e7 eV!

7. Calculated and tabulated Q values disagree.  
*reaction label 12: n + H1 + Sn120 (Error # 0): Q mismatch*

WARNING: Calculated and tabulated Q-values disagree: -1263346.547698975 eV vs -5777101. eV!

8. Calculated and tabulated Q values disagree.  
*reaction label 13: Sb122 + gamma (Error # 0): Q mismatch*

WARNING: Calculated and tabulated Q-values disagree: 11322044.19381714 eV vs 6807101. eV!

9. Calculated and tabulated Q values disagree.  
*reaction label 14: n + He4 + In117 (Error # 0): Q mismatch*

WARNING: Calculated and tabulated Q-values disagree: 1440678.131835938 eV vs -3.0704e6 eV!

10. Calculated and tabulated Q values disagree.  
*reaction label 15: H1 + Sn121\_s (Error # 0): Q mismatch*

WARNING: Calculated and tabulated Q-values disagree: 4906974.104690552 eV vs 285442. eV!

11. Calculated and tabulated Q values disagree.  
*reaction label 16: H2 + Sn120\_s (Error # 0): Q mismatch*

WARNING: Calculated and tabulated Q-values disagree: 961219.553237915 eV vs -3.5525e6 eV!

12. Calculated and tabulated Q values disagree.  
*reaction label 17: H3 + Sn119\_s (Error # 0): Q mismatch*

WARNING: Calculated and tabulated Q-values disagree: -1889574.961181641 eV vs -6401501. eV!

13. Calculated and tabulated Q values disagree.  
*reaction label 18: He4 + In118\_s (Error # 0): Q mismatch*

WARNING: Calculated and tabulated Q-values disagree: 7797298.525100708 eV vs 3.2878e6 eV!

- njoy2012 Warnings:

1. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!  
*group...compute self-shielded group-averaged cross-sections (0): GROUPT/conver (0)*

---message from conver---cannot do complete particle production for mt= 16  
only mf4/mf5 provided

2. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!  
*group...compute self-shielded group-averaged cross-sections (1): GROUPT/conver (0)*

---message from conver---cannot do complete particle production for mt= 17  
only mf4/mf5 provided

3. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!  
*group...compute self-shielded group-averaged cross-sections (2): GROUPT/conver (0)*

---message from conver---cannot do complete particle production for mt= 22  
only mf4/mf5 provided

4. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!  
*group...compute self-shielded group-averaged cross-sections (3): GROUPT/conver (0)*

---message from conver---cannot do complete particle production for mt= 28  
only mf4/mf5 provided

5. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!  
*group...compute self-shielded group-averaged cross-sections (4): GROUPT/conver (0)*

---message from conver---cannot do complete particle production for mt= 91  
only mf4/mf5 provided